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31817 7590 98/19/2009 SCHWABE, WILLIAMSON & WYATT, P.C. PACWEST CENTER, SUITE 1900			EXAM	EXAMINER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/815,396 LORD ET AL. Office Action Summary Examiner Art Unit SHIRLEY X. ZHANG 2144 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 07 May 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9.11-14.16-32.34 and 35 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-9,11-14,16-32,34 and 35 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

information Disclosure Statement(s) (PTO/S5/06)
 Paper No(s)/Mail Date \_\_\_\_\_\_.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

### DETAILED ACTION

This is the second office action U.S. patent application No. 10/815,396 filed on March 31, 2004. The action is responsive to Applicant's amendments and remarks filed on May 7, 2008, and is made non-final in view of the new ground of rejections presented below.

Claims 10, 15, 33 and 36-37 have been cancelled.

Claims 1-9, 11-14, 16-32 and 34-35 are pending;

Claims 1-9, 11-14, 16-32 and 34-35 are rejected;

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 and 27 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976).

The claim recites the following element that is critical or essential to the practice of the invention

"receiving network traffic from the second device corresponding to a previous secure communication session established when the second device was previously on the internal network; and responding to said network traffic with an error such that the second device attempts to re-establish a secure communication session from the external network."

However, the above claim element is not enabled by the disclosure in either the claim or the specification because it is unclear how "receiving network traffic from the second device corresponding to a previous secure communication session" can take place when the second device moves to the external network

Examiner asserts that

when the second device is in the internal network, traffic from the second device corresponding to a secure session is sent directly to the first devices without going through the intermediary. When the second device moves outside the internal network, traffic from the second device corresponding to the said secure session will be addressed to the first device directly. Therefore it is unclear how the intermediary can receive said traffic when the second device moves to the external network.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-7, 9, 11, 23-25, 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cho et al. (U.S. PG-Pub No. 2003/0217136, hereinafter "Cho"), in view of Moyer et al. (U.S. PG-Pub No. 2002/0103898, hereinafter "Moyer").

Regarding claim 1, Cho disclosed a method for an intermediary selectively coupling an external network and an internal network to dynamically generate filter rules to facilitate

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establishing an end to end session connection between a first device on the internal network and a second device of the external network (Fig. 1 and [0026] disclose the proxy server 130 that is equivalent to the intermediary recited in the claim), the method comprising:

receiving a session establishment request by the second device on the external network to establish a communication session with the first device on the internal network (Fig.7 and [0026] disclose that the UPnP proxy server includes an agent 131 for receiving a command from the wired and wireless clients 100 or 110 on the Internet);

forwarding the session establishment request to the first device (Fig.7 and [0026] disclose that the UPnP proxy server also includes a bridge for sending control messages to the UPnP devices in the home network);

monitoring the internal network for an approval or disapproval acknowledgement by the first device for the session establishment request (Fig. 2, Fig. 7 and [0026] disclose that the bridge receive event messages from the UPnP devices, where the event messages include responses to the previously sent control messages); and

receiving network traffic from the second device corresponding to a previous secure communication session established when the second device was previously on the internal network and responding to said network traffic with an error such that the second device attempts to re-establish a secure communication session from the external network ((Cho, [0005-0006] disclosed that in a conventional UPnP network, a control point receives advertisement messages while in the home network; Cho, [0006] further disclosed that the control point may travel outside the home network, and that the control point may be a wireless client as shown in Fig. 1; Such disclosure means that a control point may still be sending traffic belonging to a

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previous session to the home network as it travels beyond the range of the home network, causing an error condition to be generated).

Cho did not explicitly disclose the session establishment request is a secure session request. Neither did Cho explicitly disclosed configuring a first filter rule of the intermediary to allow communication between the first and second devices through the intermediary, if an approval acknowledgement is detected;

However, Moyer disclosed a method for remotely controlling home appliances in a home network from outside network such as Internet using a Home Firewall/NAT (RGW) that authenticates and authorizes each request/message from external sources so as to filter and reject communications from unknown sources for security reasons (Moyer, [0072], [0078-0080]). The disclosure implies that the firewall must be configured filter rules, and the session between a control source and a networked appliance is secure.

One of ordinary skill in the art would have been motivated to combine Cho and Moyer because both disclosed controlling devices in a home network over external Internet (Cho, Fig. 1 and Moyer, Fig. 1).

Therefore, it would have been obvious for one to incorporate Moyer's security features such as Firewall/NAT into Cho to achieve the desirable result of securing the communications between Cho's wired/wireless internet client and UPnP home devices so that the UPnP devices will not be tempered by malicious clients from the internet.

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Claim 27 lists substantially the same elements of claim 1, but in product form rather than method form. Therefore, the supporting rationale of the rejection to claim 1 applies equally as well to claim 27.

Regarding claims 2 and 28, the combination of Cho and Moyer disclosed the method of claim 1, and the article of claim 27, respectively.

Cho further disclosed that the method comprises:

determining a presence advertisement for the first device has been received before forwarding the secure session establishment request to the first device (Cho, Fig. 2, Fig. 7 and [0039] disclose that the device management module 21 is adapted to receive advertisement messages periodically sent from the UPnP devices in the home network, manage a device list on the basis of the received advertisement messages and, when a new UPnP device is additionally provided in the home network, receive a device description from the new UPnP device).

Regarding claim 3, the combination of Cho and Moyer disclosed the method of claim 2.

Cho further disclosed that the presence advertisement is delivered in accordance with the UPnP Simple Service Discovery Protocol (SSDP) (Cho, [0008] discloses using SSDP, a protocol proposed to be used in UPnP network for presence advertisement).

Regarding claim 4, the combination of Cho and Moyer disclosed the method of claim 1.

Cho further disclosed that the method comprises:

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receiving network traffic from the second device corresponding to the second device requesting a UPnP Device Description Document from the first device (Cho, Fig. 7 and [0071] disclose that upon receiving a service description request message from the stub 102 (step 717), the agent 131 sends the received message to the bridge 132 (step 718), which then transfers it to the specific UPnP device (step 719)).

Regarding claims 5, 29, the combination of Cho and Moyer disclosed the method of claim 1, the article of claim 27, respectively.

Cho further disclosed:

receiving a service request from the second device for the first device, the service request having an associated communication port for performing the service (Cho, Fig. 7, "device control command 729"; Cho, [0044] further disclosed that the message processing module on the UPnP Proxy conducts communications according to HTTP protocol; As HTTP is a TCP based protocol, a service request such as the "device control command" inherently has an associated communication port);

determining the service request identifies a service advertised by the first device in a device description document (Cho, Fig. 7 and [0040]); and

configuring a second filter rule to allow communication between the first device and the second device using the associated communication port (Cho, [0007] disclosed that a home network can be a private network and [0008] disclosed using NAT; For NAT, a filter rule must exist in the proxy device to translate between the public IP address and private IP address to allow communication between home network and Internet).

Regarding claims 6 and 30, the combination of Cho and Moyer disclosed the method of claim 1 and the article of claim 27 respectively.

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Cho further disclosed that the method comprises:

providing the second device with an indicia for use by the second device in establishing a communication link to the first device (Fig.7 and [0071] disclose that the specific UPnP device sends the service description to the bridge 132 (720), which then transfers it to the agent 131 (721), where the service description is equivalent to the indicia recited in the claim).

Regarding claim 7, the combination of Cho and Moyer disclosed the method of claim 1.

Cho further disclosed that the indicia is a selected one of a globally routable Internet
Protocol (IP) address, or an internal network address non-routable on the external network (Cho,
[0008] discloses a method that is adapted to control UPnP devices with private Internet protocol
(IP) addresses in a home network over the Internet by providing on the Internet a UPnP directory
server that translates uniform resource locator (URL) information in device descriptions of the
UPnP devices by way of a network address translation (NAT) technology and provides the
translated information to a client on an external Internet network; as NAT translates between
public and private IP addresses, IPv6 and IPv4 address, or private IP addresses of different
subnets, the use of NAT in Le implies that the address returned to the UE in the external
network is either a public IP address, or a private IP address).

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Regarding claims 9 and 31, the combination of Cho and Moyer disclosed the method of claim 1 and the article of claim 27, respectively.

Cho did not explicitly disclose retrieving an Access Control List (ACL) from the first device, the ACL including an identification of devices authorized to establish communication sessions; and determining based at least in part on the ACL the second device is authorized to establish the secure communication session with the first device before forwarding the secure session establishment request to the first device.

However, Moyer disclosed that a SIP UAS device is responsible for authenticating the originator of the message, and determine if that originator is authorized to perform the requested operation by consulting an access control list (Moyer, [0020]). Moyer further disclosed that the Home UAS (i.e. Firewall/NAT in Fig. 3) must filter and reject communications from unknown sources (Moyer, [0078]).

Examiner provides the same rationale for combining Cho and Moyer as provided above in the rejection of claim 1.

Regarding claim 11, the combination of Cho and Moyer disclosed the method of claim

Cho did not explicitly disclosed but Moyer disclosed establishing the end to end secure session connection between the first device on the internal network and the second device of the external network in a single end to end secure session connection between said first and second devices (Moyer, [0022] disclosed that messages between the client control application and a

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networked appliance is grouped into a session through authentication tools and security mechanisms, making the session secure).

Examiner provides the same rationale for combining Cho and Moyer as provided above in the rejection of claim 1.

Regarding claim 23, Cho disclosed a system of devices communicatively coupled with an internal network and an external network via a gateway (Cho, Fig. 1, UPnP Proxy server), comprising:

a first device, communicatively coupled to the internal network, offering services (Cho, Fig.1, UPnP devices); a second device selectively coupled with the internal and external networks.

the second device seeking a service of the first device (Cho, Fig. I, wired/wireless internet clients),

wherein when requesting the service, said requesting includes sending a communication initiation request to the first device to facilitate establishing a communication session with the first device; and an intermediary selectively communicatively coupling the first and second devices, wherein the intermediary is configured to receive a communication initiation request from the second device over the external network and forward the request to the first device (Cho, Fig. 1 discloses the wired/wireless internet clients sending control messages to the UPnP device via the UPnP Proxy server as an intermediary, which forwards messages to the UPnP device).

Cho did not explicitly disclose that the session to be established is a secure session.

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However, Moyer disclosed a method for remotely controlling home appliances in a home network from outside network such as Internet via a Home Firewall/NAT (RGW) which authenticates and authorizes each request/message from external sources so as to filter and reject communications from unknown sources for security reasons, (Moyer, [0072], [0078-0080]), making the session between a control source and a networked appliance secure.

One of ordinary skill in the art would have been motivated to combine Cho and Moyer because both disclosed controlling devices in a home network over external Internet (Cho, Fig. 1 and Moyer, Fig. 1).

Therefore, it would have been obvious for one to incorporate Moyer's security features such as Firewall/NAT into Cho to achieve the desirable result of securing the communications between Cho's wired/wireless internet client and UPnP home devices so that the UPnP devices will not be tempered by malicious clients from the internet.

Regarding claim 24, the combination of Cho and Moyer disclosed the system of claim
23.

Cho did not explicitly disclose but Moyer disclosed that the intermediary is further configured to monitor the first device for an approval or disapproval authentication acknowledgement for the request, and to configure a filter of the intermediary controlling communication over the first network from the first device based at least in part on a monitored authentication acknowledgement.

However, Moyer disclosed a method for remotely controlling home appliances in a home network from outside network such as Internet using a Home Firewall/NAT (RGW), Moe

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specifically, Moyer disclosed in [0020], [0023] and [0079] that the firewall authenticates the originator of a message, and then determine if the originator is authorized to perform the requested operation, meaning that if the originator is not authorized, the request message will be blockedExaminer provides the same rationale as provided in claim 23 for the combination of Cho and Moyer.

Examiner provides the same rationale as provided in claim 23 for the combination of Cho and Moyer.

Regarding claim 25, the combination of Cho and Moyer disclosed the system of claim
23.

Cho further disclosed that the first device communicates with the second device in accord with the UPnP Security Protocol (Cho, Fig. 1).

2. Claims 12-14, 16-20, 22, 32 and 34-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cho et al. (U.S. PG-Pub No. 2003/0217136, hereinafter "Cho"), IETF draft "Simple Service Discovery Protocol/1.0" (hereinafter "IETF-Draft-SSDP"), and Moyer et al. (U.S. PG-Pub No. 2002/0103898, hereinafter "Moyer").

Regarding claim 12, Cho disclosed a method for a second device communicating with a first device on an internal network by way of an intermediary selectively coupling an external network and the internal network (Cho, Fig. 1 and [0026] disclose the proxy server 130 coupling internet and a home network), comprising:

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receiving, by the second device while on the internal network, a presence advertisement for the first device (Cho, Fig. 2, Fi.g7 and [0039] disclosed that the device management module 21 is adapted to receive advertisement messages periodically sent from the UPnP devices in the home network, manage a device list on the basis of the received advertisement messages and, when a new UPnP device is additionally provided in the home network, receive a device description from the new UPnP device);

storing, by the second device while on the internal network, a network address associated with the first device (Cho, [0015] discloses a method of allowing the UPnP proxy server to discover the UPnP devices in the home network, acquire information of the UPnP devices, create a device list on the basis of the acquired information; Cho, [0008] further discloses that a UPnP SSDP protocol is used, as SSDP was proposed by Microsoft as the protocol of choice for device discovery, see "IETF-Draft-SSCP-01"; furthermore, the SSDP draft discloses in section 5.2.1.1 an example of the presence announcement message, which includes a network address associated with the UPnP device; therefore, it can be implied that the UPnP proxy server stores a network address of the device in the device list).

determining, by the second device while on the internal network, services offered by the device (IETF-Draft-SSCP, section 5.2.1.1 discloses that the presence announcement messages contains a value "NT" which indicates the type of service offered by the device); and

Issuing, by the second device while on the external network, a communication initiation request to the first device via the intermediary (Cho, Fig.7 disclose that the UPnP client sends commands to the UPnP device via the UPnP Proxy).

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Cho did not explicitly disclosed that the request for the initiation of a secure communication session

However, Moyer disclosed a method for remotely controlling home appliances in a home network from outside network such as Internet via a Home Firewall/NAT (RGW) which authenticates and authorizes each request/message from external sources so as to filter and reject communications from unknown sources for security reasons, (Moyer, [0072], [0078-0080]), making the session between a control source and a networked appliance secure.

One of ordinary skill in the art would have been motivated to combine Cho and Moyer because both disclosed controlling devices in a home network over external Internet (Cho, Fig. 1 and Moyer, Fig. 1).

Therefore, it would have been obvious for one to incorporate Moyer's security features such as Firewall/NAT into Cho to achieve the desirable result of securing the communications between Cho's wired/wireless internet client and UPnP home devices so that the UPnP devices will not be tempered by malicious clients from the internet.

Examiner asserts that the steps of receiving a presence advertisement and storing a network address for the first device by the second device while on the internal network is a standard UPnP process for any device in a home network, which process is also disclosed by Cho in paragraph [0007]. Therefore, these steps do not distinguish the claimed invention from prior art.

Examiner further asserts that because the claim does not disclose how the second device utilize information received while on the internal network when it moves to the external network,

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Applicant's remark that in claim 12 the second device can roam between the home network and external network is anticipated by Cho's wireless push client, as a wireless device is known to be able to roam between networks.

Claim 32 lists substantially the same elements of claim 12, but in product form rather than method form. Therefore, the supporting rationale of the rejection to claim 12 applies equally as well to claim 32.

Regarding claim 13, the combination of Cho, IETF-Draft-SSDP, and Moyer disclosed the method of claim 12.

Cho further disclosed that the intermediary is configured to:

forward the request to the first device (Fig.7 and [0026] disclose that the UPnP proxy server also includes a bridge for sending control messages to the UPnP devices in the home network);

monitor for an approval or disapproval authentication acknowledgement to the request (Fig.2, Fig.7 and [0026] disclose that the bridge receive event messages from the UPnP devices, where the event messages include responses to the previously sent control messages); and

Cho did not explicitly disclose configuring a filter of the intermediary to allow communication with the first device if an approval authentication acknowledgement is received.

However, in the same field of endeavor, Moyer disclosed using firewall filter and authenticate requests/messages from an external source (Moyer, [0072], [0078-0080] disclosed a method for remotely controlling home appliances in a home network from outside network such

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as Internet using a Home Firewall/NAT (RGW) that authenticates and authorizes each request/message from external sources so as to filter and reject communications from unknown sources for security reasons). The disclosure implies that the firewall must be configured filter rules, and the session between a control source and a networked appliance is secure.

Examiner provides the same rationale as provided in claim 12 for the combination of Cho and Moyer.

Regarding claim 14, the combination of Cho, IETF-Draft-SSDP, and Moyer disclosed the method of claim 13.

Cho did not explicitly disclose but Moyer disclosed that the intermediary is further configured to configure the filter to block communication with the device is a disapproval authentication acknowledgement is received (Moyer, [0020], [0023] and [0079] disclosed that the firewall authenticates the originator of a message, and then determine if the originator is authorized to perform the requested operation, meaning that if the originator is not authorized, the request message will be blocked).

Examiner provides the same rationale as provided in the rejection of claim 13 for the combination of Cho and Moyer.

Regarding claims 16 and 34, the combination of Cho, IETF-Draft-SSDP and Moyer disclosed the method of claim 12 and the article of claim 32, respectively.

Cho further disclosed that while on the internal network, the method comprises requesting a description of services offered by the device (Cho. [0006] disclosed that the control

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point acquires all information necessary for the control of the devices in the home network from advertisement messages sent from the devices; Fig. 7 further disclosed in step 718 that the UPnP Proxy server requests a description of services offered by the device from the bridge interfacing to the internal network).

Regarding claim 17, the combination of Cho, IETF-Draft-SSDP and Moyer disclosed the method of claim 16. Cho further disclosed that the description of services is requested from the intermediary (Cho, Fig.17 discloses in steps 717 and 723 that the UPnP client requests the description of services from the UPnP proxy server, which is an intermediary).

Regarding claims 18 and 35, the combination of Cho, IETF-Draft-SSDP, and Moyer disclosed the method of claim 12 and the article of claim 32, respectively.

Cho further disclosed that while on the external network, the method further comprising requesting a description of services offered by the device (Cho, Fig.17 discloses in steps 717 that the UPnP client, being on the external network, requests the description of services from the UPnP proxy server).

Regarding claim 19, the combination of Cho, IETF-Draft-SSDP, and Moyer disclosed the method of claim 18.

Cho further disclosed that the description of services is requested from the intermediary (Cho, Fig.17 discloses in steps 717 that the UPnP client requests the description of services from the UPnP proxy server, which is an intermediary).

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Regarding claim 20, the combination of Cho, IETF-Draft-SSDP, and Moyer disclosed the method of claim 12.

Cho did not disclose but Moyer disclosed receiving an approval authentication acknowledgement to the request; and responsive to the approval, requesting a service of the device (Moyer, [0020], [0023] and [0072]);

Examiner provides the same rationale as provided in claim 12 for the combination of Cho and Moyer.

Regarding claim 22, the combination of Cho, IETF-Draft-SSDP, and Moyer disclosed the method of claim 12.

Cho further disclosed that a traveling control point performs the method for communicating with the device (Cho, Fig.1 discloses that a wireless internet client 110 communicates with the UPnP devices in a home network).

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cho and Moyer as
applied to claim 1 above, further in view of Le et al. (U.S. PG-Pub No. 2005/0111382,
hereinafter "Le").

Regarding claim 8, the combination of Cho and Moyer disclosed the method of claim 1.

Cho did not explicitly disclose but Le disclosed that communication within the internal network is in accord with an IPv6 compatible Internet Protocol (IP) (Le, [0014] discloses that the

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architecture as illustrated in FIG. 1 has been recently adopted in 3GPP for the internetworking of IPv6 and IPv4 domains; In 3GPP, it is inherent that the internal network uses IPv6).

It would have been obviousness for one of ordinary skill to combine Cho and Le such that a firewall is employed to allow communications between authenticated sessions only by using dynamically configured filtering rules.

One would have been motivated to combine as such by Le's teaching of using an Internet firewall to secure an internal network from the Internet to the extent that it blocks unsolicited traffic from the outside.

4. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cho, IETF-Draft-SSDP, and Moyer as applied to claim 12 above, further in view of IETF RFC 3056, "Connection of IPv6 domains via IPv4 clouds", hereinafter "RFC 3056".

Regarding claim 21, the combination of Cho, IETF-Draft-SSDP and Moyer disclosed the method of claim 12.

Cho did not explicitly disclose but RFC 3056 disclosed using the prefix of a globally unique IPv6 address to identify an intermediary that connects an IPv6 cloud to the IPv4 network.

It would have been obvious for one of ordinary skill to combine Cho and RFC 3056 so that the intermediary is identified by an IPv6 address prefix, which is a port of the IPv6 address. One would have been motivated to combine as such by Cho's disclosure of using private network to construct home network due to depletion of IPv4 addresses, which problem can be solved by introducing IPv6 into the home network and keeps IPv4 for the external network.

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5. Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cho and Moyer as applied to claim 23 above, further in view of the article "UPnPTM Security Ceremonies Design Document For UPnP Device Architecture 1.0" authored by Ellison and published by the UPnP Forum (hereinafter "Ellison").

Regarding claim 26, the combination of Cho and Moyer disclosed the system of claim 23.

Cho did not explicitly disclose but Ellison disclosed that the secure communication initiation request corresponds to a UPnP Set Session Key (SSK) request (Ellison, page 13, section 5, "Session Keys").

It would have been obvious for one of ordinary skill in the art to combine Cho and Ellison so that the secure communication initiation request corresponds to a UPnP set session key request. One would have been motivated to combine Cho and Ellison by Ellison in that Ellison first discloses the need in UPnP for a security protocol and then suggested using Session Key to establish end-to-end secure sessions.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHIRLEY X. ZHANG whose telephone number is (571)270-5012. The examiner can normally be reached on Monday through Friday 7:30am - 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Vaughn can be reached on (571) 272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. X. Z./
Examiner, Art Unit 2144
8/11/2008
//William C. Vaughn, Jr./
Supervisory Patent Examiner, Art Unit 2144